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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/885,777	06/20/2001	Rogelio Peon	PEON 5-1-3	3651
7	590 05/24/2005		EXAM	INER
William H. Murray, Esquire			MEEK, JACOB M	
•	& Heckscher LLP			
One Liberty Pl	ace		ART UNIT	PAPER NUMBER
Philadelphia, I	PA 19103-7396		2637	

DATE MAILED: 05/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u> </u>	
	Application No.	Applicant(s)	
	. 09/885,777	PEON ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jacob Meek	i 2637	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet v	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repleved in the provision of the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by stature to reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	 .136(a). In no event, however, may a ply within the statutory minimum of th d will apply and will expire SIX (6) MC te, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 04. 2a)⊠ This action is FINAL. 2b)□ Thi 3)□ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal ma		
Disposition of Claims			
 4) Claim(s) 1 - 20 is/are pending in the application 4a) Of the above claim(s) is/are withdrests. 5) Claim(s) 3 - 5, 15 - 17 is/are allowed. 6) Claim(s) 1,2,13 and 14 is/are rejected. 7) Claim(s) 6 - 12, 18 - 20 is/are objected to. 8) Claim(s) are subject to restriction and/or 	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examir 10) The drawing(s) filed on <u>06/20/01</u> is/are: a) Applicant may not request that any objection to th Replacement drawing sheet(s) including the corre 11) The oath or declaration is objected to by the E	accepted or b) \square objecte e drawing(s) be held in abey ection is required if the drawin	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119	•		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies.	nts have been received. nts have been received in iority documents have bee au (PCT Rule 17.2(a)).	Application No en received in this National Stage	`
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper N	w Summary (PTO-413) o(s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	(8) 5) ☐ Notice of 6) ☐ Other: _	of Informal Patent Application (PTO-152)	

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DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed on December 21, 2004 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 2, 13, and 14 have been considered but are most in view of the new ground(s) of rejection.

Drawings

3. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because submitted drawings did not appear with other scanned amendment documents. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 2, 13, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ushirokawa et al (US-5,228,058).

With regard to claim 1, Ushirokawa discloses an apparatus for processing an equalizer output signal formed by transmitting a digital signal over a channel and passing transmitted signal through an adaptive equalizer (see figure 3, 302 and column 2, lines 13 – 27)

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comprising: a correlator circuit block that detects an incorrect convergence of the adaptive equalizer by summing a plurality of consecutive symbols and outputs a correlator signal (see figure 2, 203 and column 6, lines 38 - 55), and a corrector filter that receives equalizer output signal and correlator output signal and applies a correction to the equalizer output signal based on the correlator output signal to form a corrected signal that is substantially a time delayed copy of the input signal (see column 6, lines 9 - 37). Ushirokawa is silent with respect to AMI signals. Ushirokawa states that his invention is useful digital transmission signals experiencing ISI. It would have been obvious to one of ordinary skill in the art at the time of invention that AMI is a form of digital transmission signals prone to ISI.

With regard to claim 2, Ushirokawa discloses an apparatus wherein correlator circuit block further comprises means for calculating an estimate of an autocorrelation function of equalizer output signal (see column 6, lines 38 – 55 where this is interpreted as equivalent).

With regard to claims 13 and 14, the steps claimed as method are nothing more than a restatement of the function of the apparatus of claims 1 and 2 and therefore would have been obvious given the aforementioned rejection of claims 1 and 2 above.

Allowable Subject Matter

- 5. Claims 3-5, and 15-17 are allowed.
- 6. Claims 6 12, and 18 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Other Cited Prior Art

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. McAufliffe (US-3,614,623), Cafiero (US-4,584,690), Huellwegen (US-5,105,440), Stakely (US-6,271,698), and Feldbaumer (US-

6,570,916) all disclose apparatus for the adaptive equalization of digital signals germane to applicant's area of invention.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR-1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacob Meek whose telephone number is (571)272-3013. The examiner can normally be reached on 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571)272-2988. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Business Center (EBC) at 866-217-9197 (toll-free).

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

JMM Janan

JAY K. PATEL
SUPERVISORY PATENT EXAMINER

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